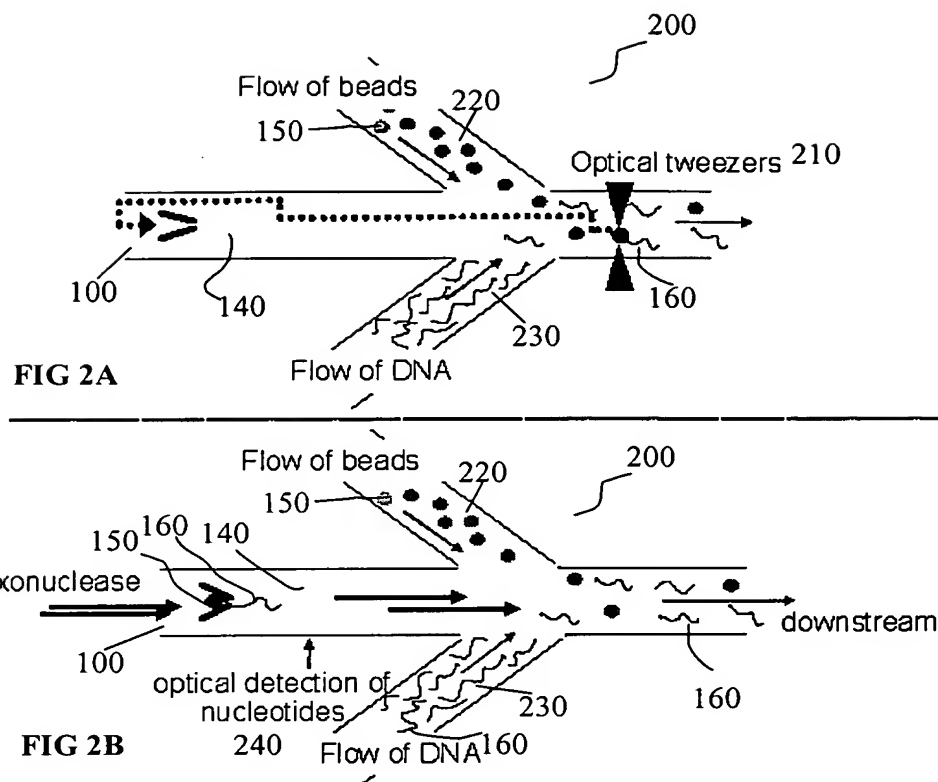
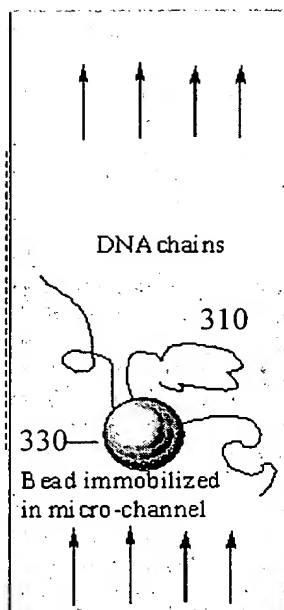


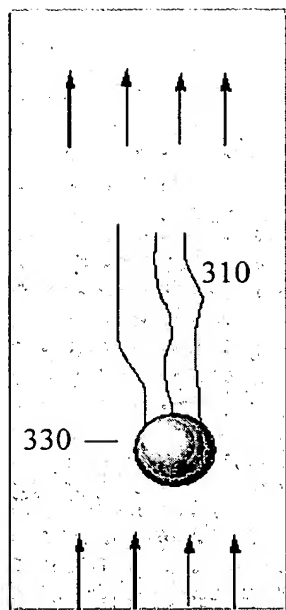
FIG. 1





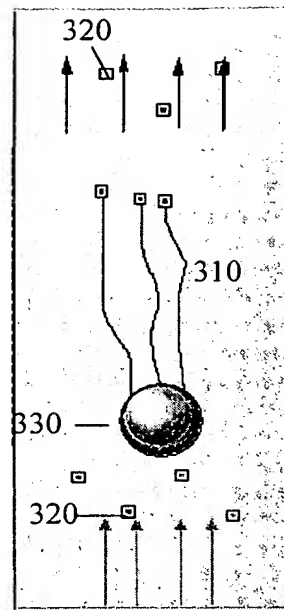
Fluidic Alignment

FIG. 3A



Fluidic Alignment
exposes the ends of the molecules

FIG. 3B



Reactants
(phosphoramidites)
have better access to
the end of the DNA,
thus give better yield.

FIG. 3C

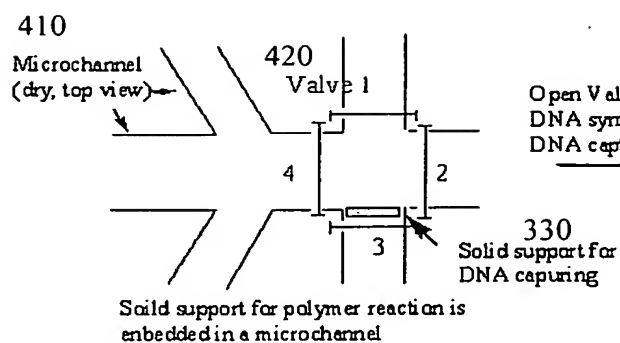


FIG. 4A

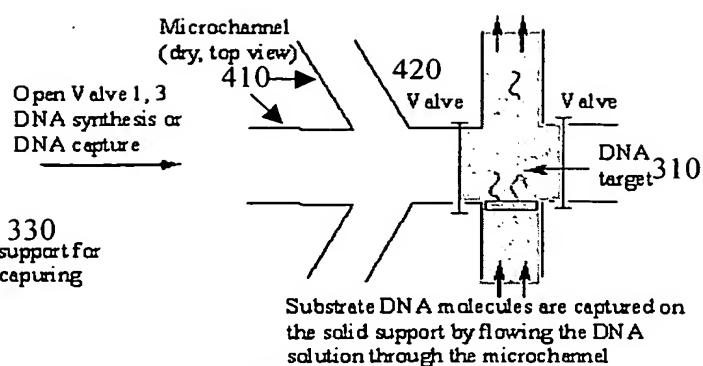


FIG. 4B

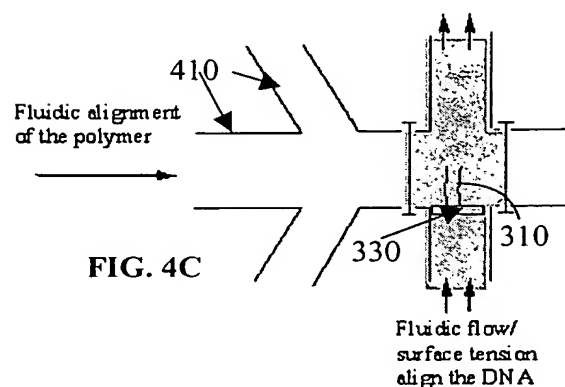


FIG. 4C

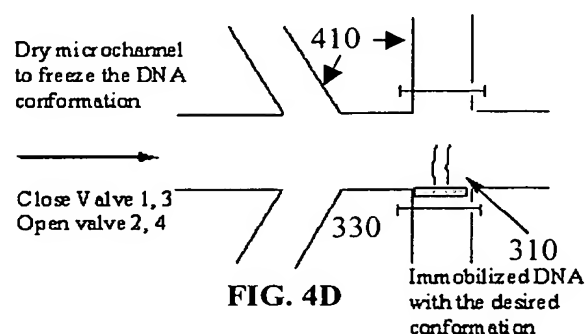


FIG. 4D

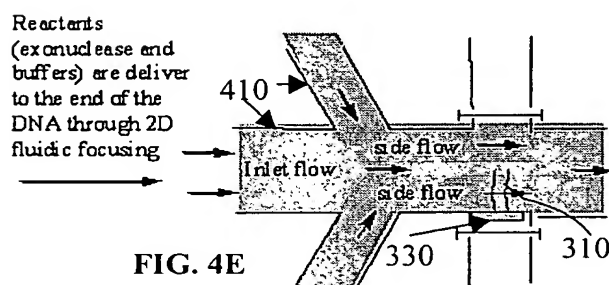


FIG. 4E

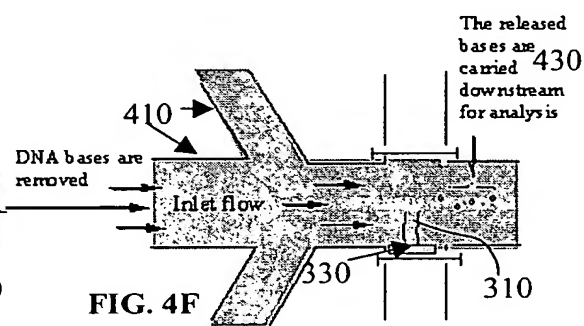


FIG. 4F

Only the selected region (50nm, ~150 bases from the end) of the DNA molecules can be digested. Hence the reaction is synchronized at ~150 bases.

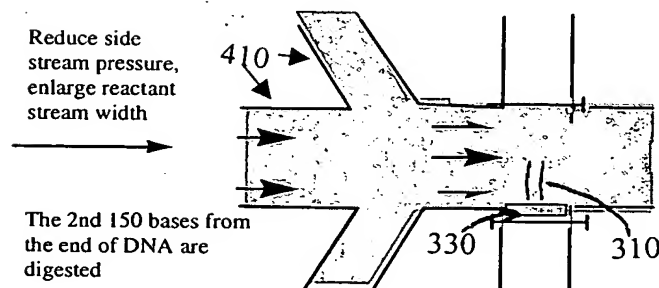


FIG. 4G

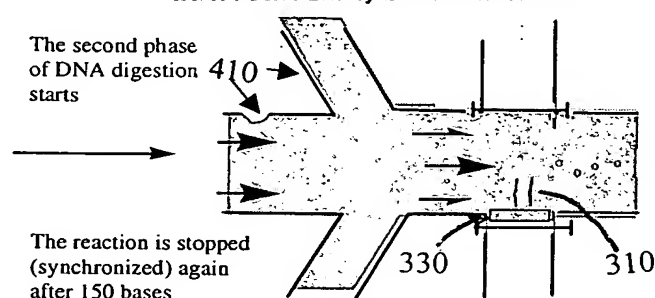


FIG. 4H

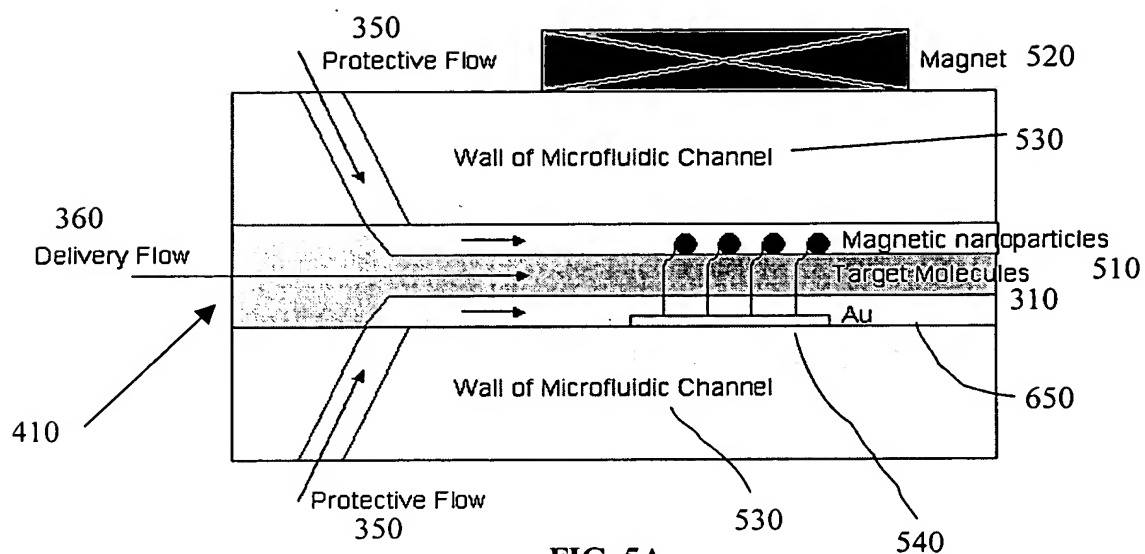


FIG. 5A

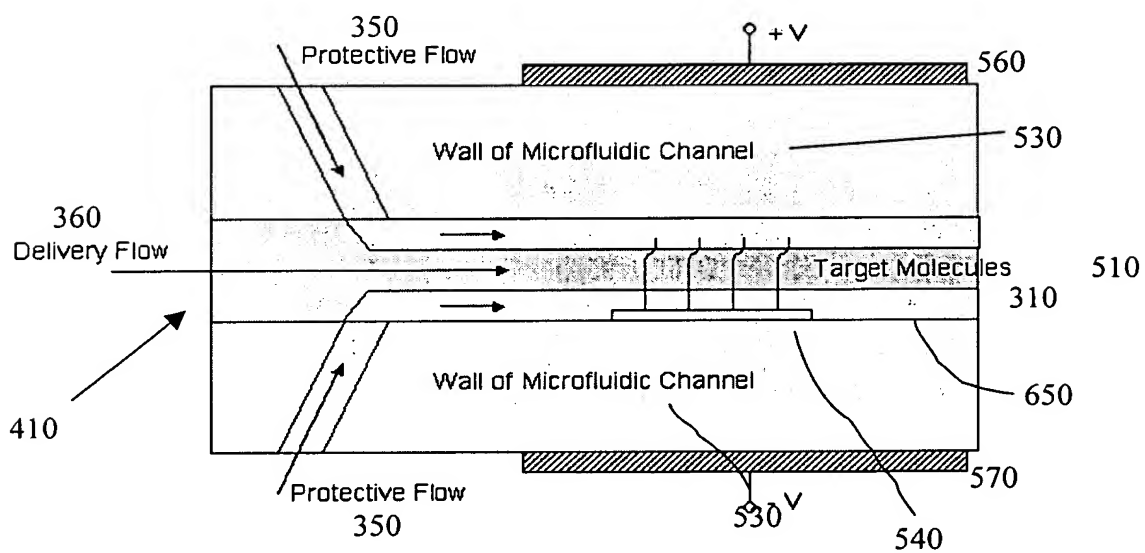


FIG. 5B

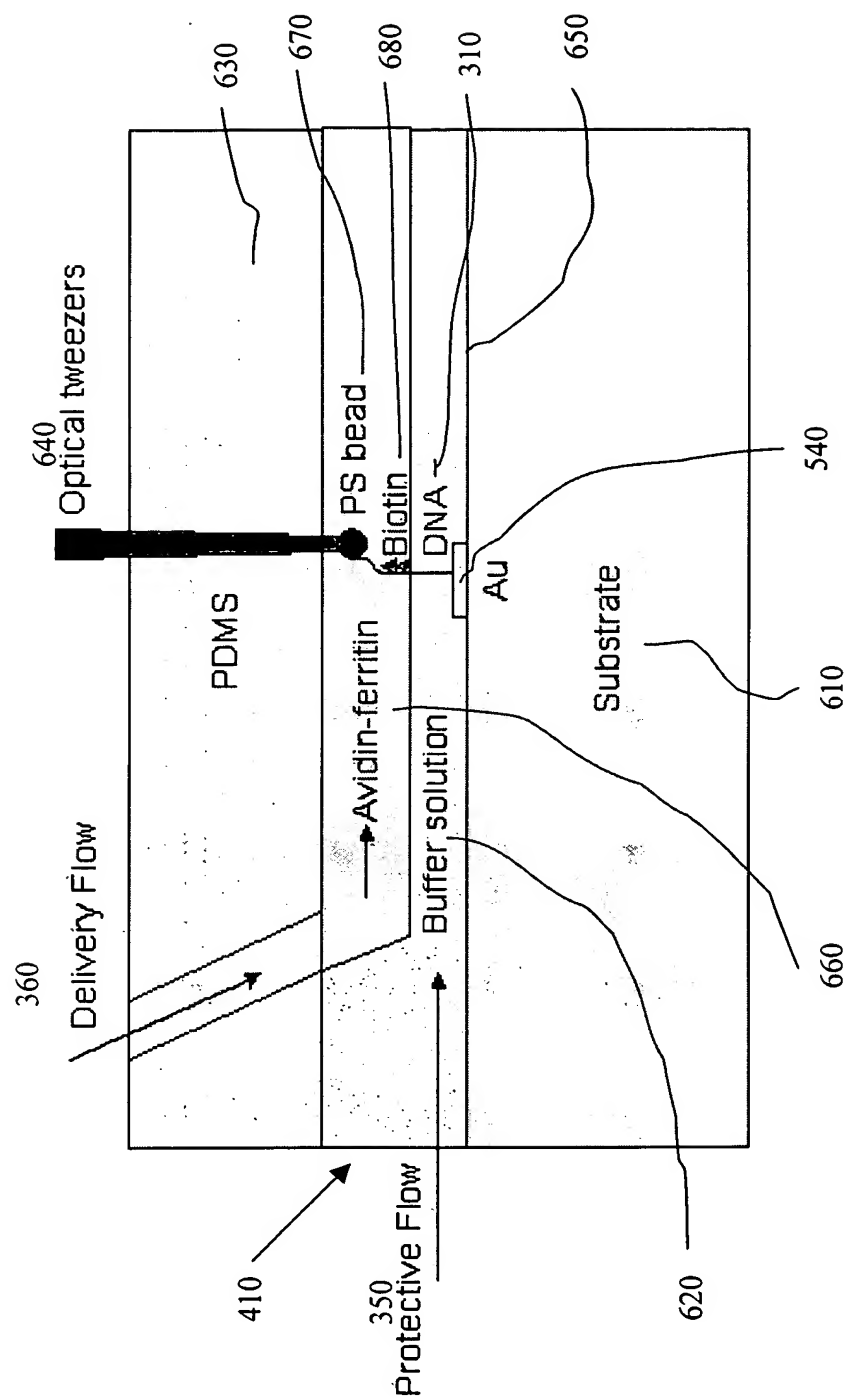


FIG. 6